Sexually Transmitted Diseases

Updated Summary of 2010 CDC Treatment Guidelines



Sexually Transmitted Diseases: Updated Summary of 2010 CDC Treatment Guidelines

These summary guidelines reflect the August 2012 update to the 2010 CDC Guidelines for Treatment of Sexually Transmitted Diseases. CDC issues new recommendations for treating uncomplicated gonorrhea in this update. This summary is intended as a source of clinical guidance. An important component of STD treatment is partner management. Providers can arrange for the evaluation and treatment of sex partners either directly or with assistance from state and local health departments. Complete guidelines can be viewed online at www.cdc.gov/std/treatment/2010.

DISEASE	RECOMMENDED Rx	DOSE/ROUTE	ALTERNATIVES	
Bacterial Vaginosis	metronidazole oral ¹	500 mg orally 2v/day for 7 days	♠ tinidazole 2 g orally 1y/day for 2 days	
Nonpregnant women	metronidazole gel 0.75% ¹ Ol clindamycin cream 2% ^{1,2}		 ♦ tinidazole 2 g orally 1x/day for 2 days ♦ tinidazole 1 g orally 1x/day for 5 days clindamycin 300 mg orally 2x/day for 7 days clindamycin ovules 100 mg intravaginally at bedtime for 3 days 	
Pregnancy ^{3,4}		500 mg orally 2x/day for 7 days or 250 mg orally 3x/day for 7 days		
Cervicitis ⁵	clindamycin oral azithromycin Ol	300 mg orally 2x/day for 7 days; See complete guidelines for dosing 1 g orally in a single dose		
	doxycycline ⁶	100 mg orally 2x/day for 7 days		
Chlamydial Infections	azithromycin Ol	. 1 g orally in a single dose	erythromycin base ⁷ 500 mg orally 4x/day for 7 days	
Adults, adolescents, and children aged ≥8 years	doxycycline ⁶	100 mg orally 2x/day for 7 days	erythromycin ethylsuccinate8 800 mg orally 4x/day for 7 days levofloxacin9 500 mg orally 1x/day for 7 days ofloxacin9 300 mg orally 2x/day for 7 days	
Pregnancy ³	azithromycin ¹⁰ Ol amoxicillin	1 g orally in a single dose 500 mg orally 3x/day for 7 days	erythromycin base ^{7,11} 500 mg orally 4x/day for 7 days erythromycin base 250 mg orally 4x/day for 14 days erythromycin ethylsuccinate 800 mg orally 4x/day for 7 days	
Children (<45 kg): urogenital, rectal	erythromycin base ¹² or ethylsuccinate	50 mg/kg/day orally (4 divided doses) daily for 14 days	erythromycin ethylsuccinate 400 mg orally 4x/day for 14 days	
Neonates: ophthalmia neonatorum, pneumonia	erythromycin base ¹² or ethylsuccinate	50 mg/kg/day orally (4 divided doses) daily for 14 days		
Epididymitis ^{13,14}	ceftriaxone PLU: doxycycline	250 mg IM in a single dose 100 mg orally 2x/day for 10 days		
For acute epididymitis most likely due to enteric organisms or with	levofloxacin Ol	500 mg orally 1x/day for 10 days		
negative GC culture or NAAT:	-ofloxacin	300 mg orally 2x/day for 10 days		
Genital Herpes Simplex irst clinical episode of genital herpes	acyclovir Ol	400 mg orally 3x/day for 7-10 days ¹⁶		
This chimical opisode of gential herpes	acyclovir Ol	200 mg orally 5x/day for 7-10 days ¹⁶ 250 mg orally 3x/day for 7-10 days ¹⁶		
	valacyclovir ¹⁵	1 g orally 2x/day for 7-10 days ¹⁶		
pisodic therapy for recurrent genital herpes		400 mg orally 3x/day for 5 days 800 mg orally 2x/day for 5 days		
	acyclovir Ol	800 mg orally 3x/day for 2 days		
	famciclovir ¹⁵ Ol famciclovir ¹⁵ Ol	. 1000 mg orally 2x/day for 1 day ¹⁶		
	famciclovir ¹⁵ Ol valacyclovir ¹⁵ Ol	◆ 500 mg orally once, followed by 250 mg 2x/day for 2 days 500 mg orally 2x/day for 3 days		
upprocessive the many 17 from the second	valacyclovir ¹⁵	1 g orally 1x/day for 5 days		
Suppressive therapy ¹⁷ for recurrent genital herpes	famciclovir ¹⁵ Ol			
	valacyclovir ¹⁵ Ol valacyclovir ¹⁵	500 mg orally once a day 1 g orally once a day		
ecommended regimens for episodic infection in	acyclovir Ol	400 mg orally 3x/day for 5-10 days		
ersons with HIV infection	famciclovir ¹⁵ Ol valacyclovir ¹⁵	500 mg orally 2x/day for 5-10 days 1 g orally 2x/day for 5-10 days		
ecommended regimens for daily suppressive		400-800 mg orally 2-3x/day		
erapy in persons with HIV infection	famciclovir ¹⁵ Ol valacyclovir ¹⁵	500 mg orally 2x/day 500 mg orally 2x/day		
Genital Warts ¹⁸	Patient Applied podofilox 0.5% ¹⁵ solution or gel Ol	Apply to visible warts 2x/day for 3 days, rest 4 days, 4 cycles max.		
uman Papillomavirus) ternal genital and perianal warts	imiquimod 5% ¹⁵ cream ♦ sinecatechins 15% ointment ^{2,15}	11.5		
	Provider Administered Cryotherapy Ol			
	podophyllin resin 10%-25% ¹⁵ Ol trichloroacetic acid or bichloroacetic		Intralesional interferon	
	acid 80%-90% Ol	Apply small amount, dry, apply weekly if necessary	Laser surgery	
Gonococcal Infections ¹⁹	surgical removal			
dults, adolescents, and children >45 kg:	ceftriaxone Ol	♦ 250 mg IM in a single dose	cefixime ²⁰ 400 mg orally in a single dose azithromycin ¹⁰ 1 g orally in a single dose	P
urogenital, rectal			doxycycline ⁶ 100 mg 2x/day for 7 days test-of-cure	I
	PLUS OI	1 g orally in a single dose	If the patient has severe cephalosporin allergy:	
	azithromycin ⁶ doxycycline ⁹	100 mg orally 2x/day for 7 days	azithromycin 2 g orally in a single dose	I
Pharyngeal ²¹	ceftriaxone	250 mg IM in a single dose	test-of-cure	
	PLUS			
	azithromycin ⁶ Ol doxycycline ⁹	l g orally in a single dose 100 mg orally 2x/day for 7 days		
regnancy ³	See complete CDC guidelines.	100 lig orany 2x/day 101 / days		
dults and adolescents: conjunctivitis	ceftriaxone	1 g IM in a single dose, irrigate infected eye with saline solution once		
hildren (≤ 45 kg): urogenital, rectal, pharyngeal	ceftriaxone ²²	♦ 125 mg IM in a single dose		
ymphogranuloma venereum	doxycycline ⁶	100 mg orally 2x/day for 21 days	erythromycin base 500 mg orally 4x/day for 21 days	
Nongonococcal Urethritis (NGU)	azithromycin ¹⁰ Ol doxycycline ⁶	1 g orally in a single dose 100 mg orally 2x/day for 7 days	erythromycin base ⁷ 500 mg orally 4x/day for 7 days erythromycin ethylsuccinate ⁸ 800 mg orally 4x/day for 7 days	
			levofloxacin 500 mg 1x/day for 7 days ofloxacin 300 mg 2x/day for 7 days	
ecurrent NGU ^{3,23,24}		2 g orally in a single dose	onoxiom 500 mg 22/day 101 / days	
	tinidazole PLU azithromycin (if not used for initial episode)	2 g orally in a single dose 1 g orally in a single dose		
Pediculosis Pubis	permethrin 1% cream rinse Ol	Apply to affected area, wash off after 10 minutes	malathion 0.5% lotion, applied 8-12 hrs then washed off	
1.1.: I. A	pyrethrins with piperonyl butoxide 1. ceftriaxone PLU	Apply to affected area, wash off after 10 minutes 250 mg IM in a single dose	ivermectin 250 μg/kg, orally repeated in 2 weeks	
elvic Inflammatory Pisease ¹³	doxycycline	100 mg orally 2x/day for 14 days		
iseuse	WITH OR WITHOU metronidazole	500 mg orally 2x/day for 14 days		
	2. cefoxitin PLU	2 g IM in a single dose and probenecid, 1 g, orally administered concurrently in a single dos	e	
	doxycycline WITH OR WITHOU	100 mg orally 2x/day for 14 days		
	metronidazole	500 mg orally 2x/day for 14 days		
	3. Other parenteral third-			
	generation cephalosporin (e.g. ceftizoxime or cefotaxime)			
	,	100 mg orally 2x/day for 14 days		
	metronidazole	500 mg orally 2x/day for 14 days		
'cabies	Alternative oral regimens are list permethrin 5% cream Ol	d in CDC's 2010 STD Treatment Guidelines. Apply to all areas of body from neck down, wash off after 8-14 hours	lindane 1% ^{26,27} 1 oz. of lotion or 30 g of cream, applied thinly to all	
	ivermectin	200 µg/kg orally, repeated in 2 weeks	areas of the body from the neck down, wash off after 8 hours	
yphilis	benzathine penicillin G	2.4 million units IM in a single dose	doxycycline ^{6,28} 100 mg 2x/day for 14 days	
imary, secondary, or early latent <1 year		and the displacement of the second	tetracycline ^{6,28} 500 mg orally 4x/day for 14 days	
atent >1 year, latent of unknown duration	benzathine penicillin G	2.4 million units IM in 3 doses each at 1 week intervals (7.2 million units total)	doxycycline ⁶²⁸ 100 mg 2x/day for 28 days tetracycline ⁶²⁸ 500 mg orally 4x/day for 28 days	
	See complete CDC guidelines.	The Country with the country	Three over the order to the days	
egnancy ³	aqueous crystalline penicillin G	3 to 4 million units IV every 4 hours for 10-14 days (18-24 million units/day)	procaine penicillin G 2.4 MU IM 1x daily	
			probenecid 500 mg orally 4x/day, both for 10-14 days.	
eurosyphilis	aqueous crystalline penicillin G Ol	100,000-150,000 units/kg/day (50,000 units/kg/dose IV every 12 hours)		
leurosyphilis		during the first 7 days of life and every 8 hours thereafter for a total of 10 days		
eurosyphilis ongenital syphilis	aqueous crystalline penicillin G Ol procaine penicillin G benzathine penicillin G			
regnancy ³ feurosyphilis fongenital syphilis fhildren: primary, secondary, or early latent <1 year fhildren: latent >1 year, latent of unknown duration Trichomoniasis	procaine penicillin G	during the first 7 days of life and every 8 hours thereafter for a total of 10 days 50,000 units/kg/dose IM in a single dose for 10 days		

- The recommended regimens are equally efficacious.
 These creams are oil-based and may weaken latex condoms and diaphragms. Refer to product labeling for further information.
- Inese creams are oil-based and may weaken latex condoms and diaphragms. Refer to product labeling for Please refer to the complete 2010 CDC Guidelines for recommended regimens. Existing data do not support the use of topical agents in pregnancy. Consider concurrent treatment for gonococcal infection if prevalence of gonorrhea is >5% (younger age). Should not be administered during pregnancy, lactation, or to children <8 years of age. If patient cannot tolerate high-dose erythromycin base schedules, change to 250 mg 4x/day for 14 days.
- Figure 1 patient cannot oberate high-dose erythromycin observations, change to 250 mg 480 ay for 14 days.

 If patient cannot tolerate high-dose erythromycin ethylsuccinate schedules, change to 400 mg orally 4 times a day for 14 days.

 Contraindicated for pregnant or lactating women.

 Clinical experience and published studies suggest that azithromycin is safe and effective.

 Erythromycin estolate is contraindicated during pregnancy.

 Effectiveness of erythromycin treatment is approximately 80%; a second course of therapy may be required.

 Patients who do not respond to oral therapy (within 72 hours) should be re-evaluated.

- 14 For patients with suspected sexually transmitted epididymitis, close follow-up is essential.
 15. No definitive information available on prenatal exposure.

- 15. No definitive information available on prenatal exposure.

 16. Treatment may be extended if healing is incomplete after 10 days of therapy.

 17. Consider discontinuation of treatment after one year to assess frequency of recurrence.

 18. Vaginal, cervical, urethral meatal, and anal warts may require referral to an appropriate specialist.

 19. CDC recommends that treatment for uncomplicated genococcal infections of the cervix, urethra, and/or rectum should include dual therapy, i.e. both a cephalosporin (e.g. ceftriaxone) plus azithromycin (preferred) or doxycycline
- 20. CDC recommends that cefixime in combination with azithromycin or doxycycline be used as an alternative when
- CDL recommends that censume in combination with azintromycin or doxycycinic be used as an airernative when ceffrizatone is not available.
 Only ceffriaxone is recommended for the treatment of pharyngeal infection. Providers should inquire about oral sexual exposure
 Use with caution in hyperbilirubinemic infants, especially those born prematurely.
 MSM are unlikely to benefit from the addition of intromidazoles.
 Moxifloxacin 400mg orally 1x/day for 7 days effective against Mycoplasma genitalium

- Pregnant patients can be treated with 2 g single dose.
 Contraindicated for pregnant or lactating women, or children <2 years of age.
 Do not use after a bath; should not be used by persons who have extensive dermatitis.
 Pregnant patients allergic to penicillin should be treated with penicillin after desensitization.
 Randomized controlled trials comparing single 2 g doses of metronidazole and tinidazole suggest that tinidazole is equivalent to, or superior to, metronidazole in achieving parasitologic cure and resolution of symptoms.
- Indicates revision from the 2006 CDC Guidelines for the Treatment of Sexually Transmitted Diseases.
 - $Indicates update from the 2010 CDC \ Guidelines for the Treatment of Sexually \ Transmitted \ Diseases; see \ MMWR \ Morb \ Mortal \ Wkly \ Rep. 2012 \ Aug \ 10; \ 61(31):590-594 \ for \ details.$